CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.14/KRIDL/CEMENT/2013-14

Date: 02.04.2013

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore
AGENCY	:	**Technical Manager (West),** KRIDL, Bangalore
NAME OF THE WORK	:	Improvements to roads at Coconut Garden in Manjunathanagara in Ward No. 14, BBMP, Bangalore.
REFERENCE	:	BBMP/DZ/AEE/TDSD/PR/ /2013-14 Dated: 30.03.2013
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	172 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	489 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.00 %	-

Note:

⇒ The report shall not be reproduced, except in full, without the written approval of the laboratory.

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⇒ Any Query regarding the report must be reported within 15 days from the date of testing.

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#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.
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e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/W.No.14/KRIDL/SAND/2013-14 : 02.04.2013

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore

Agency : **Technical Manager (West),** KRIDL, Bangalore

Name of Work : Improvements to roads at Coconut Garden in Manjunathanagara in Ward No. 14, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/ /2013-14 Dated: 30.03.2013

Date of Testing : 02.04.2013

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	78	3.90	3.90	96.1	90-100
2.36	267	13.35	17.25	82.8	75-100
1.18	399	19.95	37.20	62.8	55-90
600 Micron	473	23.65	60.85	39.2	35-59
300 Micron	512	25.60	86.45	13.6	8-30
150 Micron	176	8.80	95.25	4.8	0-10

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Bangalore - 560 079

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Job No.: CTCE/BBMP/W.No.14/KRIDL/AGG/2013-14 : 02.04.2013

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore

Agency : **Technical Manager (West),** KRIDL, Bangalore

Name of Work : Improvements to roads at Coconut Garden in Manjunathanagara in Ward No. 14, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/ /2013-14 Dated: 30.03.2013

Date of Testing : 02.04.2013

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25400**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	989	3.89	3.89	96.11	95-100
20	16296	64.16	68.05	31.95	30-70
10	5046	19.87	87.92	12.08	10-35
4.75	2585	10.18	98.09	1.91	0-5

Note:

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Job No.: CTCE/BBMP/W.No.14/KRIDL/CEMENT/2013-14

Date: 02.04.2013

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore
AGENCY	:	**Technical Manager (West),** KRIDL, Bangalore
NAME OF THE WORK	:	Improvements to roads at Coconut Garden in Manjunathanagara in Ward No. 14, BBMP, Bangalore.
REFERENCE	:	BBMP/DZ/AEE/TDSD/PR/ /2013-14 Dated: 30.03.2013
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
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2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.00 %	-

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Job No.: CTCE/BBMP/W.No.14/KRIDL/SAND/2013-14 : 02.04.2013

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore

Agency : **Technical Manager (West),** KRIDL, Bangalore

Name of Work : Improvements to roads at Coconut Garden in Manjunathanagara in Ward No. 14, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/ /2013-14 Dated: 30.03.2013

Date of Testing : 02.04.2013

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	78	3.90	3.90	96.1	90-100
2.36	267	13.35	17.25	82.8	75-100
1.18	399	19.95	37.20	62.8	55-90
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Job No.: CTCE/BBMP/W.No.14/KRIDL/AGG/2013-14 : 02.04.2013

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore

Agency : **Technical Manager (West),** KRIDL, Bangalore

Name of Work : Improvements to roads at Coconut Garden in Manjunathanagara in Ward No. 14, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/ /2013-14 Dated: 30.03.2013

Date of Testing : 02.04.2013

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25400**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	989	3.89	3.89	96.11	95-100
20	16296	64.16	68.05	31.95	30-70
10	5046	19.87	87.92	12.08	10-35
4.75	2585	10.18	98.09	1.91	0-5

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Date: 02.04.2013

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore
AGENCY	:	**Technical Manager (West),** KRIDL, Bangalore
NAME OF THE WORK	:	Improvements to roads at Coconut Garden in Manjunathanagara in Ward No. 14, BBMP, Bangalore.
REFERENCE	:	BBMP/DZ/AEE/TDSD/PR/ /2013-14 Dated: 30.03.2013
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SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

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Job No.: CTCE/BBMP/W.No.14/KRIDL/SAND/2013-14 : 02.04.2013

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore

Agency : **Technical Manager (West),** KRIDL, Bangalore

Name of Work : Improvements to roads at Coconut Garden in Manjunathanagara in Ward No. 14, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/ /2013-14 Dated: 30.03.2013

Date of Testing : 02.04.2013

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	78	3.90	3.90	96.1	90-100
2.36	267	13.35	17.25	82.8	75-100
1.18	399	19.95	37.20	62.8	55-90
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Job No.: CTCE/BBMP/W.No.14/KRIDL/AGG/2013-14 : 02.04.2013

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore

Agency : **Technical Manager (West),** KRIDL, Bangalore

Name of Work : Improvements to roads at Coconut Garden in Manjunathanagara in Ward No. 14, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/ /2013-14 Dated: 30.03.2013

Date of Testing : 02.04.2013

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25400**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	989	3.89	3.89	96.11	95-100
20	16296	64.16	68.05	31.95	30-70
10	5046	19.87	87.92	12.08	10-35
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REFERENCE	:	BBMP/DZ/AEE/TDSD/PR/ /2013-14 Dated: 30.03.2013
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

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Job No.: CTCE/BBMP/W.No.14/KRIDL/SAND/2013-14 : 02.04.2013

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore

Agency : **Technical Manager (West),** KRIDL, Bangalore

Name of Work : Improvements to roads at Coconut Garden in Manjunathanagara in Ward No. 14, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/ /2013-14 Dated: 30.03.2013

Date of Testing : 02.04.2013

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	78	3.90	3.90	96.1	90-100
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Job No.: CTCE/BBMP/W.No.14/KRIDL/AGG/2013-14 : 02.04.2013

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore

Agency : **Technical Manager (West),** KRIDL, Bangalore

Name of Work : Improvements to roads at Coconut Garden in Manjunathanagara in Ward No. 14, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/ /2013-14 Dated: 30.03.2013

Date of Testing : 02.04.2013

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25400**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	989	3.89	3.89	96.11	95-100
20	16296	64.16	68.05	31.95	30-70
10	5046	19.87	87.92	12.08	10-35
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CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.14/KRIDL/WMM/Gradation/2013-14

05.04.2013

GRADATION FOR WMM
MORTH TABLE-400-11

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of Work : Improvements to roads at Coconut Garden in Manjunathanagara in Ward No. 14, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/ /2013-14 Dated: 30.03.2013

Date of Testing : 05.04.2013

Material : WMM

Sample Location : WMM Mix Plant

Oven Dry Wt (gm): **26020**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	859	859	3.3	96.7	95-100
22.4	6737	7596	29.2	70.8	60-80
11.2	4775	12371	47.5	52.5	40-60
4.75	3694	16065	61.7	38.3	25-40
2.36	3346	19411	74.6	25.4	15-30
0.600	4268	23679	91.0	9.0	8-22
0.075	1996	25675	98.7	1.3	0-8

Note:

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Job No.: CTCE/BBMP/W.No.14/KRIDL/STEEL/2013-14 08.04.2013

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
Name of the work	:	Improvements to roads at Coconut Garden in Manjunathanagara in Ward No. 14, BBMP, Bangalore.
Reference	:	BBMP/DZ/AEE/TDSD/PR/ /2013-14 Dated: 30.03.2013
Date of Test	:	08.04.2013
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	8	0.40	512	546	12.85	O.K	O.K
2	10	0.62	515	549	13.10	O.K	O.K

Note:

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⇒ Any Query regarding the report must be reported within 15 days from the date of testing.

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ಮುಖ್ಯ ಅಭಿಯಂತರರ ಅಧಿಕಾರವರ
ಟಿ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಬೆಂಗಳೂರು-೫೬೦ ೦೭೯

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.14/KRIDL/CC Blocks/2013-14

05.04.2013

TEST REPORT ON CEMENT CONCRETE BLOCKS

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of the Work : Improvements to roads at Coconut Garden in Manjunathanagara in Ward No. 14, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/ /2013-14 Dated: 30.03.2013

Size of Block : 400 x 200 x 200 mm

Cross Sectional Area : 80000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 03

Sl.No.	Date of Sampling	Date of testing	Failure load (KN)	Compressive strength	Minimum required Compressive Strength
			kN	N/mm^2	N/mm^2
1	03.04.2013	05.04.2013	262.4	3.28	
2	03.04.2013	05.04.2013	264.6	3.31	3.2
3	03.04.2013	05.04.2013	268.8	3.36	

Note:

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13.05.2013

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager (West),** KRIDL, Bangalore.
Name of the work	: Improvements to roads at Coconut Garden in Manjunathanagara in Ward No. 14, BBMP, Bangalore.
Reference	: BBMP/DZ/AEE/TDSD/PR/ /2013-14 Dated: 30.03.2013
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.04.2013	13.05.2013	8.228	482.9	21.46
2	15.04.2013	13.05.2013	8.343	501.4	22.28
3	15.04.2013	13.05.2013	8.419	524.6	23.32

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AEE(T.D)

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